

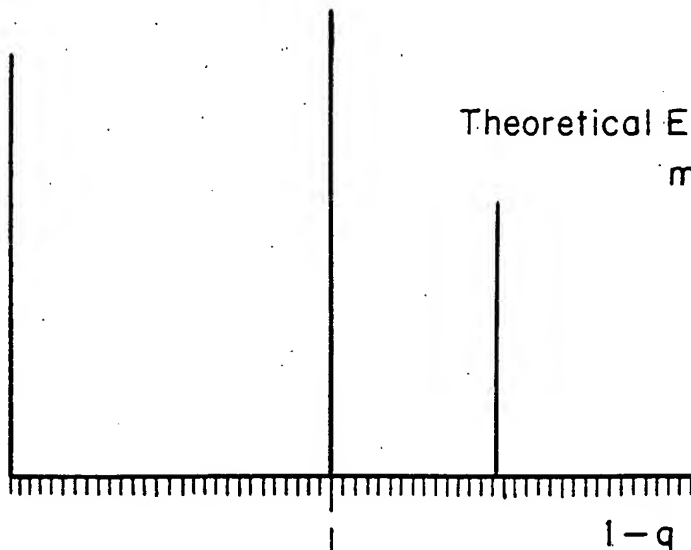


FIG. 1

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Actual Error Rate of a Natural

Replication System: $m < \ln s(1-q)^{-1}$



Theoretical Error Threshold:

$$m = \ln s(1-q)^{-1}$$

$1-q$

Increase of Incorporation Error Rate (Decrease of q) Result in Replication Beyond Error Threshold

Extension of The Genome (m) Results in Shift of Theoretical Error Threshold (Possibly to Beneath The Actual Error Threshold)

Decrease of Superiority Factor (s) of The Optimum Sequence (Ribozyme, Nuclease) Results in Shift of Theoretical Error Threshold (Possibly to Beneath The Actual Error Threshold)

FIG. 2

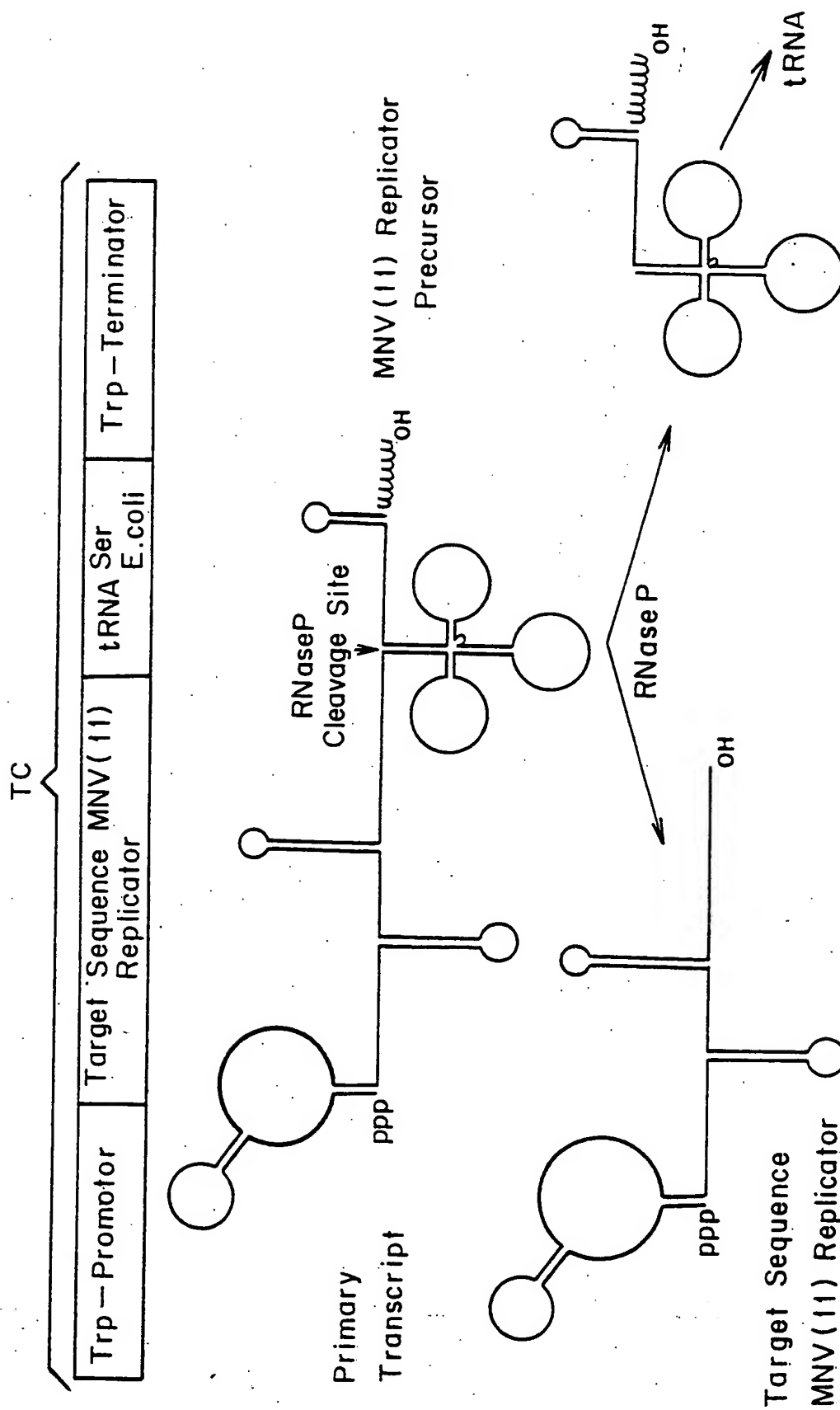


FIG. 3A

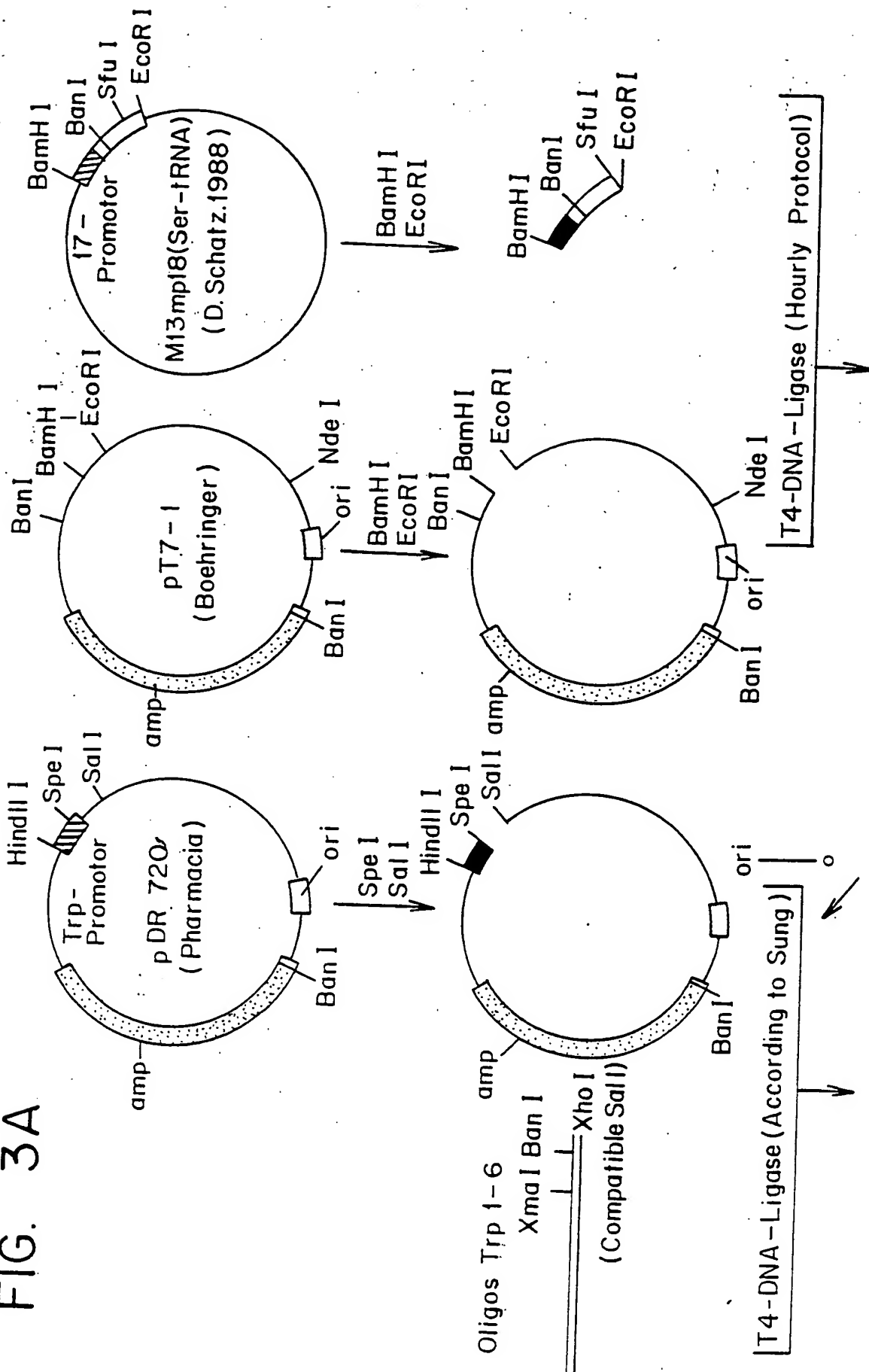


FIG. 3B

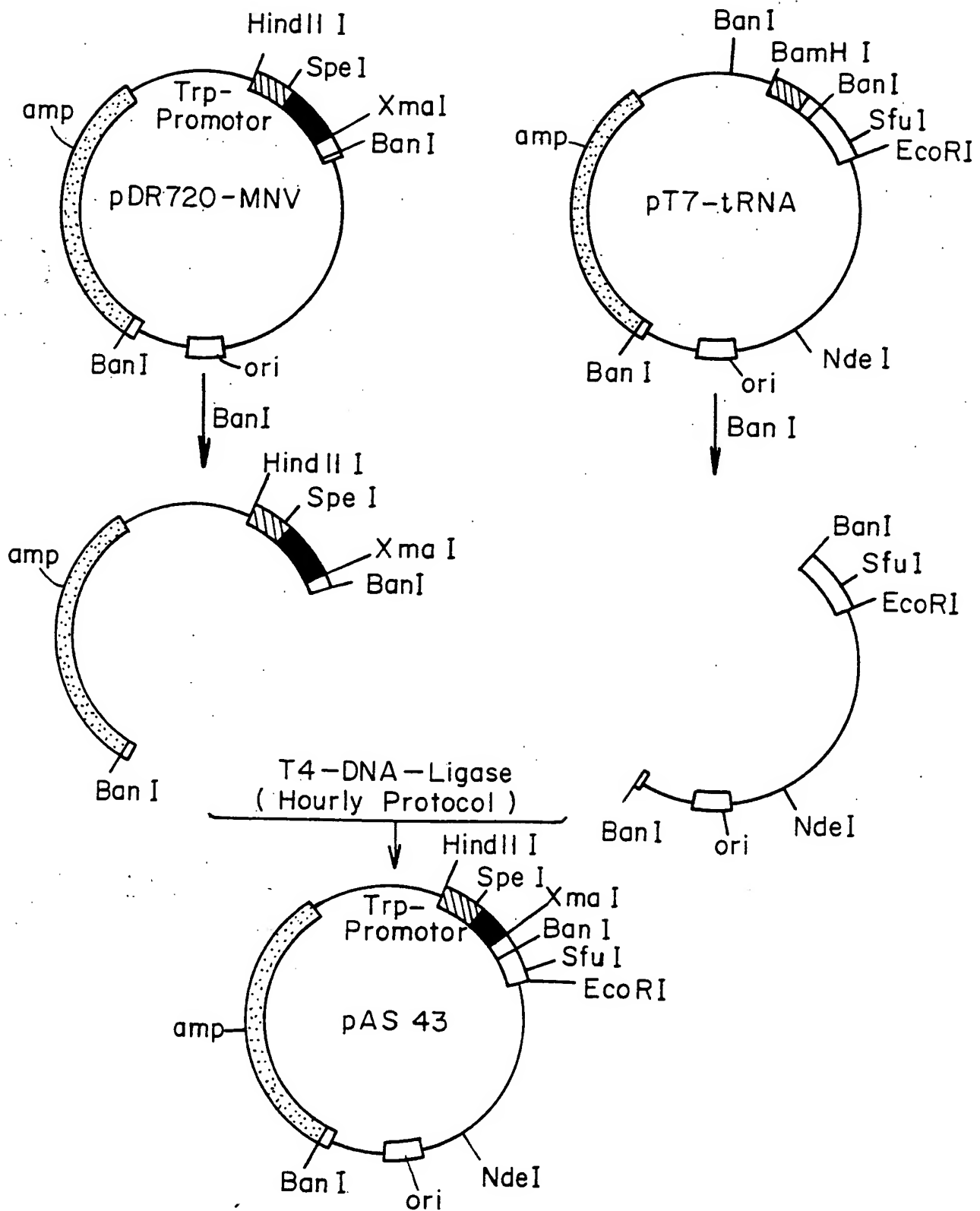


FIG. 3C

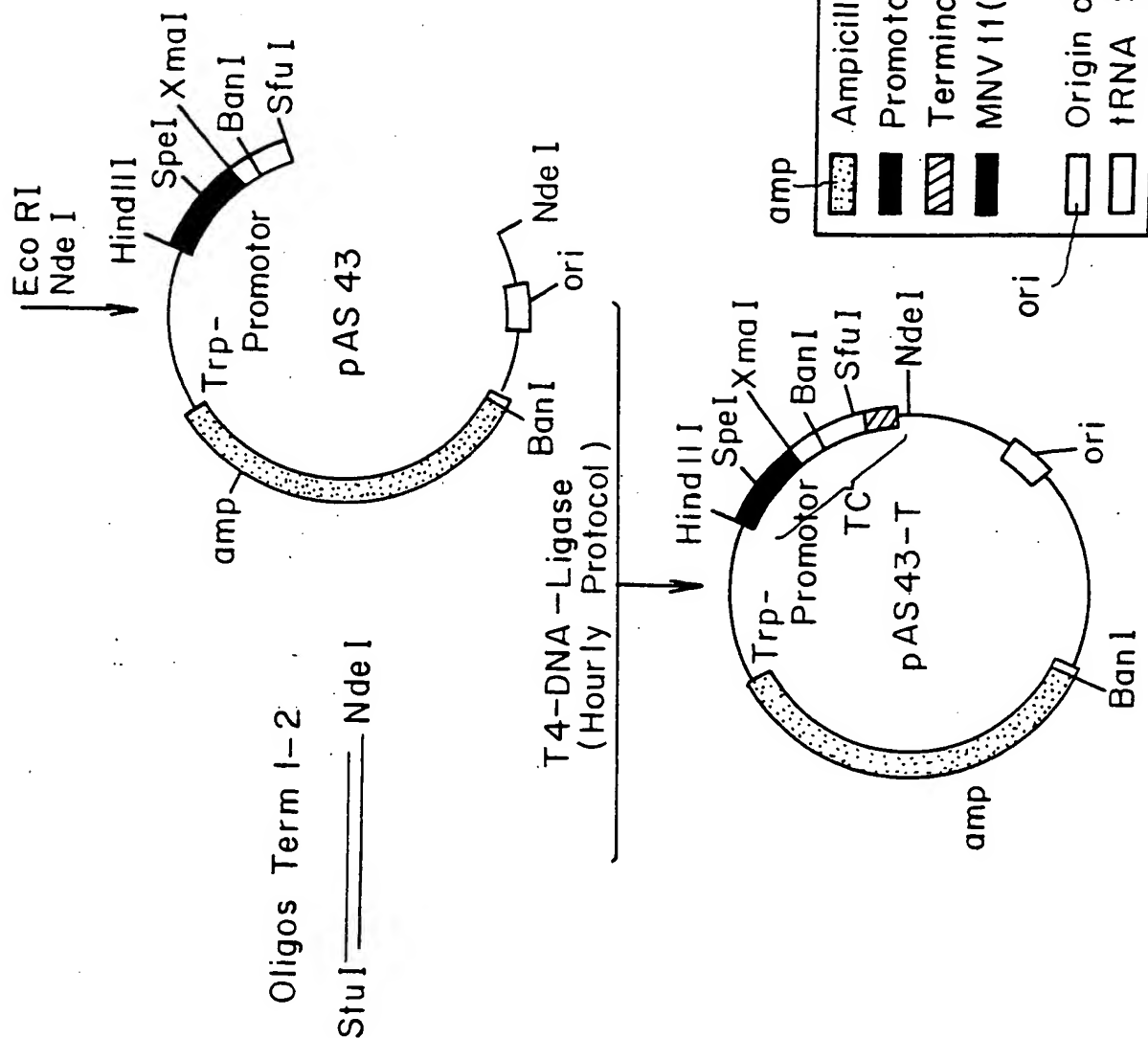


FIG. 4

SUPPRESSION OF Q β VIRUS AMPLIFICATION BY
MNV(11) REPLICATOR

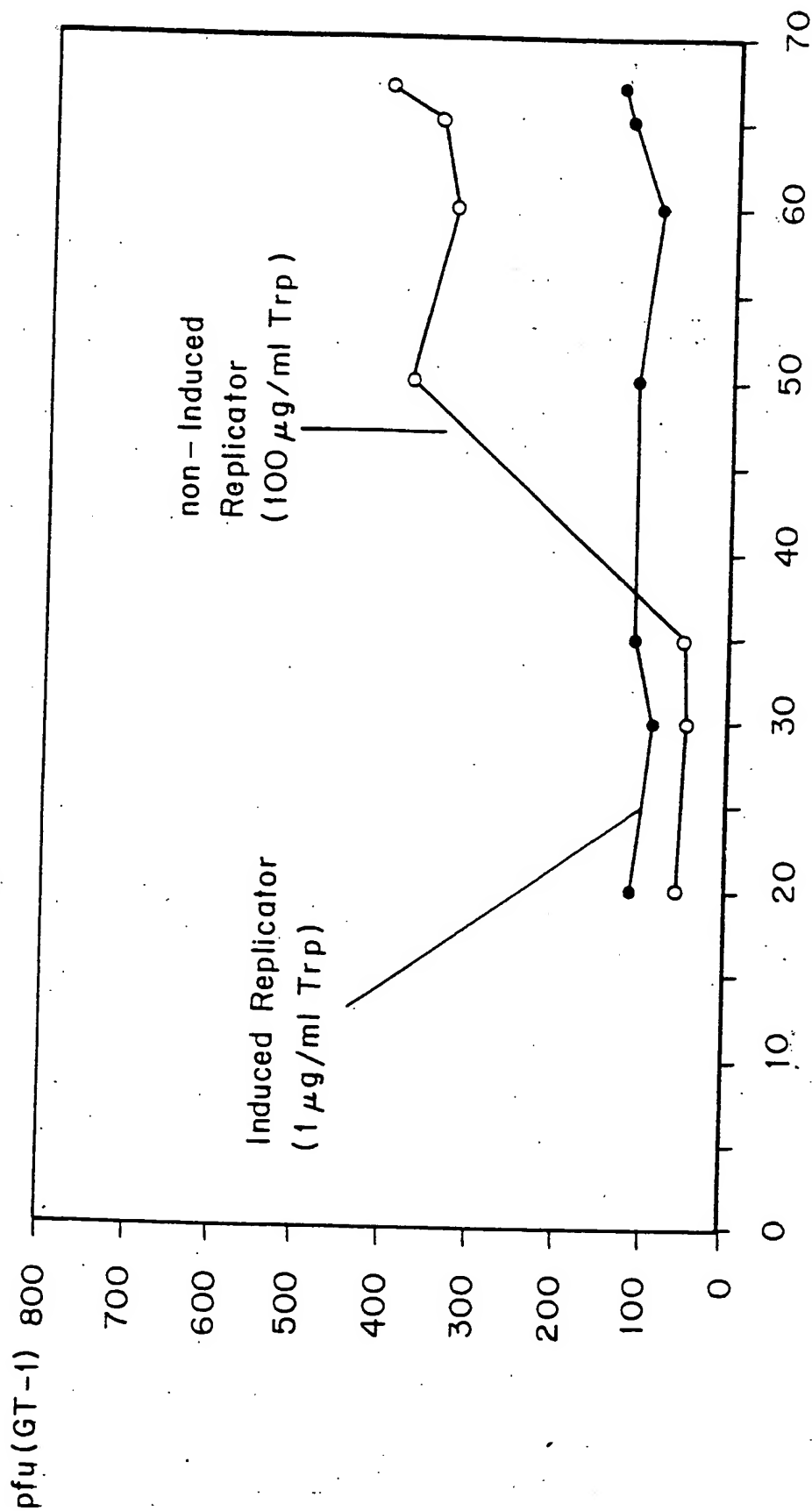
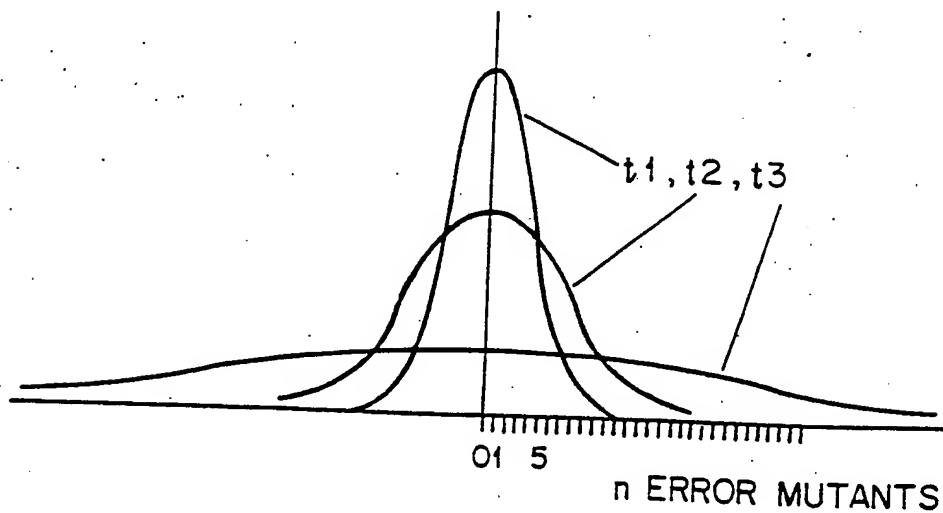


FIG. 5

QUASI SEPCIES DISTRIBUTION WITH PROCEEDING
 REPLICATION TIME t_1, t_2, t_3 ,



ANALYSIS OF QUASI SPECIES DISTRIBUTION

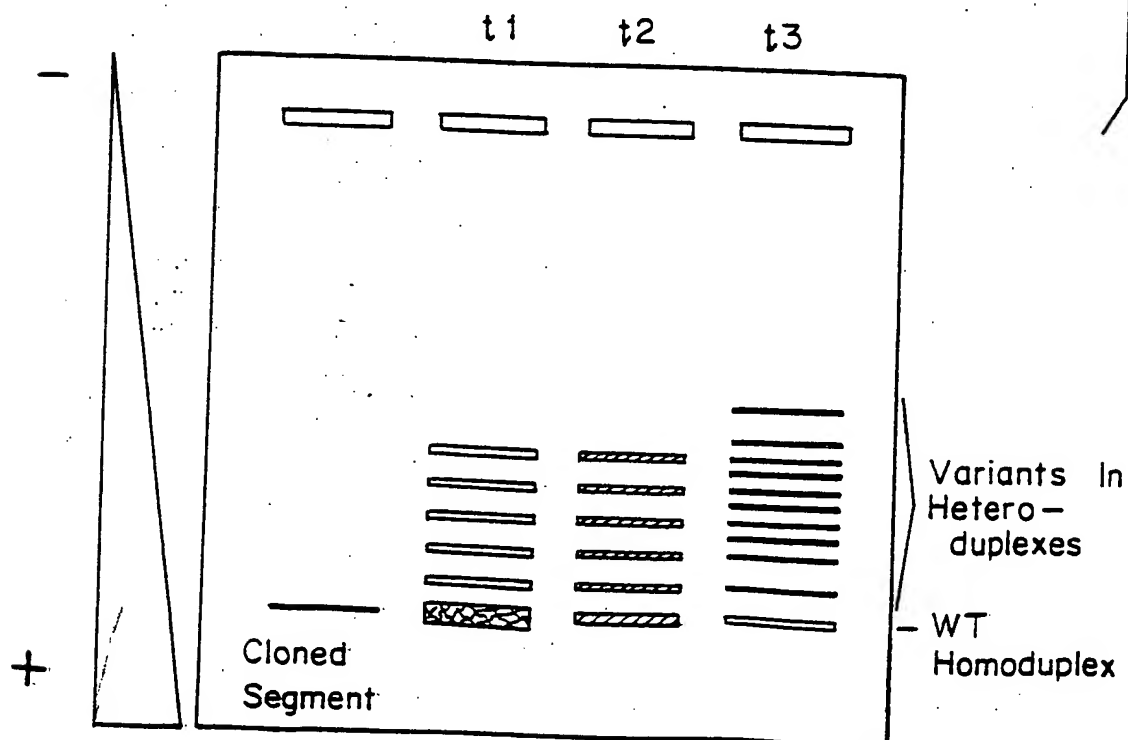
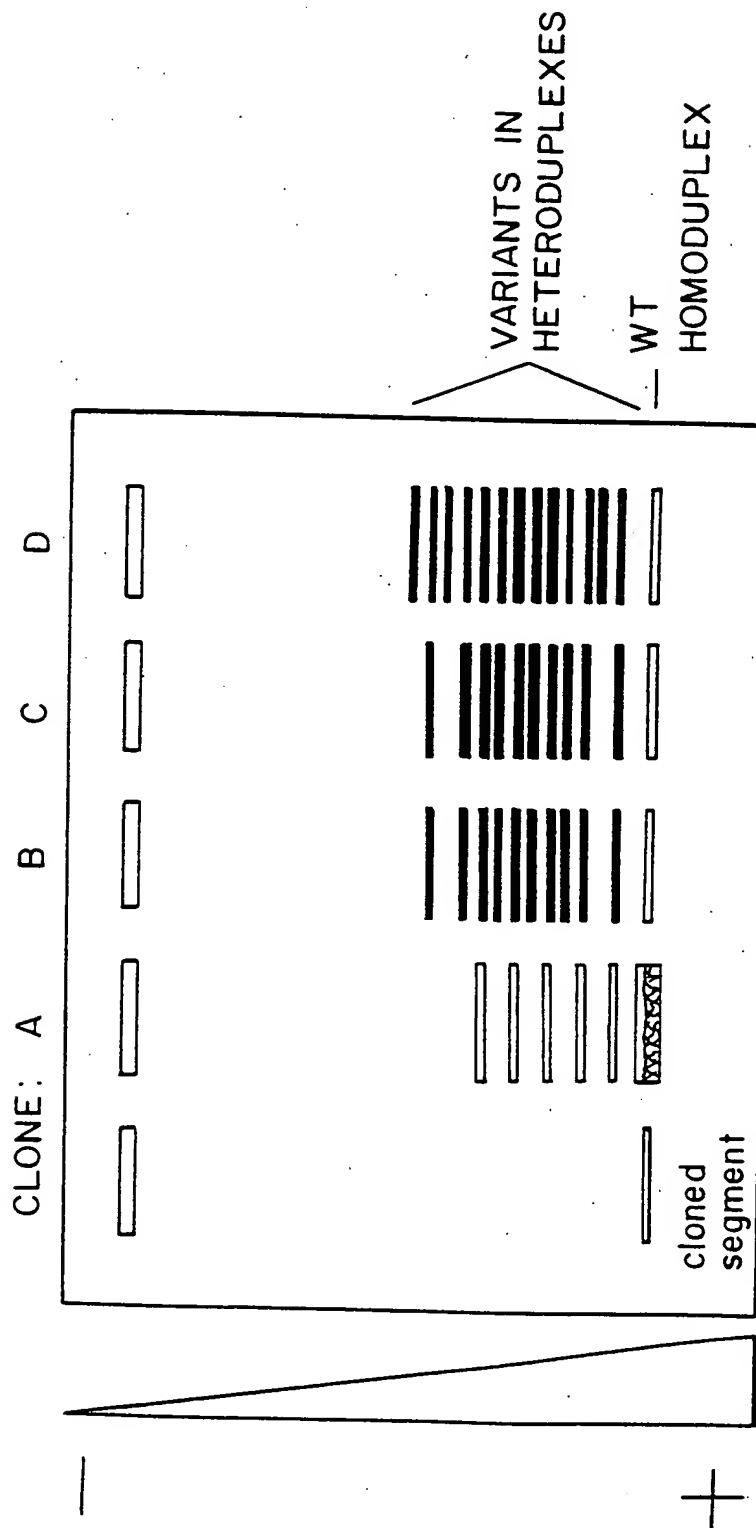


FIG. 6

ANALYSIS OF CLONED POLYMERASE GENES BY QUANTITATIVE
 DETERMINATION OF THE MUTATED SYNTHESIS PRODUCTS



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